IA-1066

USA, Canada, AEP and UK Model



INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

POWER AMPLIFIER SECTION

Continuous RMS

power output: (rated output) (less than 0.8 % THD)

At 1 kHz

20 watts (8 ohms), 26 watts (4 ohms)

one channel driven separately 18 watts (8 ohms) per channel, 22 watts (4 ohms) per channel, both channels driven simultaneously

Dynamic power output: (IHF constant power

supply method)

50 watts (8 ohms) 75 watts (4 ohms)

10 Hz to 40 kHz (8 ohms, IHF) Power bandwidth:

Less than 0.8 % at rated output Harmonic distortion:

IM distortion: (60 Hz: 7 kHz = 4:1) Less than 0.8 % at rated output

PREAMPLIFIER SECTION

Frequency response: **PHONO**

RIAA equalization curve ± 1 dB

TUNER

TAPE-1, TAPE-2 REC/PB (input)

20 Hz to 60 kHz ±3dB

Input sensitivity

and impedance:

PHONO TUNER

2.5 mV, 50 k ohms AUX 250 mV, 50 k ohms TAPE-1, TAPE-2

Signal output and

output impedance:

REC OUT REC/PB (output)

REC/PB (input)

250 mV, 10 k ohms 30 mV, 82 k ohms

GENERAL

Power requirements:

120 volts ac (USA and Canada Model) 110, 127, 220, 240 volts ac (AEP and UK Model)

Power consumption:

55 watts (USA Model) 80 watts (Canada Model) 140 watts (AEP and UK Model)

Dimensions:

410 (w) x 120 (h) x 280 (d) mm

 $16\frac{1}{8}$ (w) x $4\frac{11}{16}$ (h) x $11\frac{1}{16}$ (d) inches

Net weight: 6.0 kg (13 lb 4 oz)



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SECTION 1

TECHNICAL DESCRIPTION

1-1. SPECIFICATIONS

Power Amplifier Section

Continuous RMS

power output:

At 1 kHz

(rated output)
(less than 0.8 %

20 watts (8 ohms),

THD)

26 watts (4 ohms), one channel driven separately 18 watts per channel (8 ohms),

22 watts per channel (4 ohms), both channels driven simultane-

ously

At 40 Hz to 20 kHz

15 watts per channel (8 ohms), both channels driven simultane-

ously

Dynamic power

output:

50 watts (8 ohms) 75 watts (4 ohms)

(IHF constant power supply

method)

Power bandwidth:

10 Hz to 40 kHz (8 ohms, IHF)

Harmonic

distortion:

Less than 0.8 % at rated output Less than 0.2 % at 1 watt output

IM distortion:

Less than 0.8 % at rated output Less than 0.2 % at 1 watt output

(60 Hz: 7 kHz

= 4:1

.

Greater than 22 (8 ohms)

Damping factor: Residual noise:

Less than 0.25μ watt (8 ohms)

Preamplifier Section

Frequency response:

PHONO	RIAA equalization curve ± 1 dB
TUNER AUX TAPE-1, -2 REC/PB (input)	20 Hz to 60 kHz ± 3 dB

Input sensitivity and impedance:

	Maximum sensitivity	Impedance
PHONO	2.5 mV	50 k ohms
TUNER AUX TAPE-1,-2 REC/PB (input)	250 mV	50 k ohms

Measured with specified RMS power output provided into 8-ohm loads (both channels driven simultaneously) at 1 kHz.

Signal output and impedance:

	Level	Impedance	Input level		
REC OUT 1 · 2	250 mV	10 k ohms	PHONO 2.5 mV		
REC/PB (output)	30 mV	82 k ohms	TUNER AUX TAPE 1 ·2 REC/PB (input)		

Signal-to-noise ratio:

	S/N	Weighting network	Input level
PHONO	70 dB	В	2.5 mV
TUNER AUX TAPE 1 · 2 REC/PB (input)	90 dB	A	250 mV

Tone controls:

BASS ± 10 dB at 100 Hz

TREBLE ± 10 dB at 10 kHz

High filters:

6 dB/octave above 5 kHz

Loudness control:

+ 10 dB at 50 Hz, + 3.5 dB at

10 kHz (at 30 dB attenuation)

General

Circuit system:

Quasi-complementary symmetry

circuit (SEPP OTL)
Direct output coupling

Semiconductors:

22 transistors and 6 diodes

Power

requirements:

120 V ac (USA and Canada Model)

110, 127, 220, 240 V ac (AEP and UK Model)

Power

consumption:

55 watts (USA Model) 80 watts (Canada Model)

140 watts (AEP and UK Model)

Ac outlets:

1 unswitched, 300 watts maximum

(USA and Canada Model only)

Dimensions:

410 (w) x 120 (h) x 280 (d) mm

 $16\frac{1}{8}$ (w) x $4\frac{1}{16}$ (h) x $11\frac{1}{16}$ (d)

inches

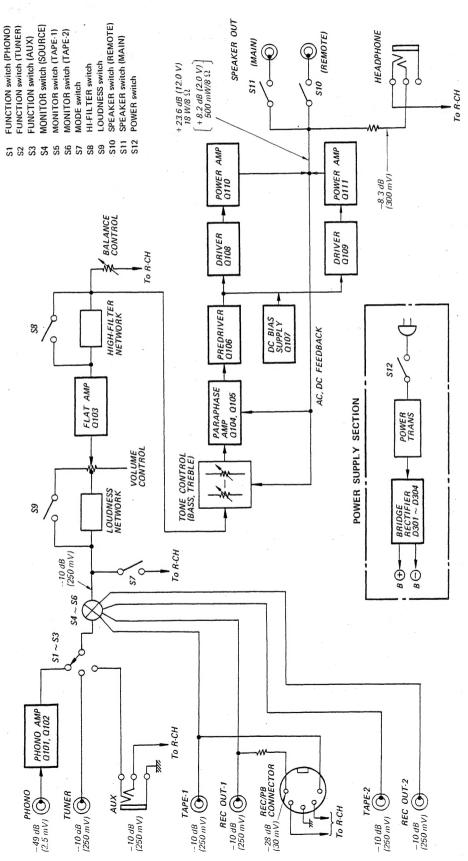
Net weight:

6.0 kg (13 lb 4 oz)

Shipping weight:

7.3 kg (16 lb 2 oz)

1-2. BLOCK DIAGRAM/LEVEL DIAGRAM



Note: Signal voltages are measured with ac VTVM and expressed in dB referred to 0.775 V, 1 kHz.

SECTION 2

DISASSEMBLY AND REPLACEMENT

Note: All screws in this service manual are Phillips type (cross recess type) unless otherwise indicated. (-): slotted head.

2-1. BOTTOM PLATE REMOVAL

1. Remove the seven screws shown in Fig. 2-1.

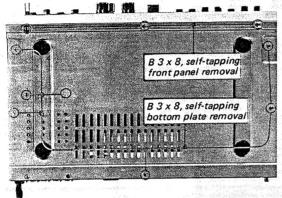


Fig. 2-1. Bottom view

2-2. FRONT PANEL REMOVAL

- 1. Remove the two screws at both sides of the wooden case.
- 2. Pull off the TONE, BALANCE and VOLUME control knobs.
- 3. Remove the six screws from the front top and bottom of the front panel as shown in Fig. 2-1 and 2-2.
- 4. This frees the front panel with pushbutton.

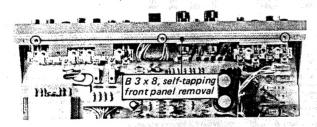


Fig. 2-2. Front panel removal

2-3. FRONT SUBCHASSIS REMOVAL

- 1. Remove the front panel by following the Procedure 2-2.
- 2. Remove the two screws at each side of the front subchassis as shown in Fig. 2-3.
- 3. Remove the three screws shown in Fig. 2-3.
- 4. Remove the two screws (B 3 x 4) securing the POWER switch.
- Remove the two hex nuts securing the TONE controls.
- 6. This frees the front subchassis.

2-4. PUSHBUTTON SWITCH REPLACEMENT

- 1. Remove the front subchassis by following the Procedure 2-3.
- 2. With a soldering iron having a soldersucking tip, clean the solder from each lug of the switches and printed circuit board.
- 3. Install a new one.

2-5. NYLON RIVET REMOVAL

- 1. To remove the nylon rivet, push its end with a tweezers as shown in Fig. 2-4.
- 2. To reinstall the rivet, insert the flared part into the opening first, then push its head as far as it will go.

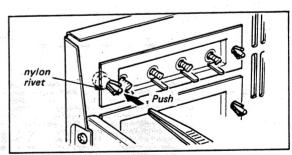


Fig. 2-4. Nylon rivet removal

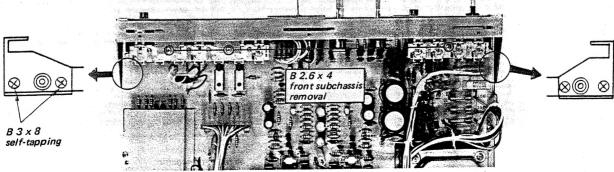
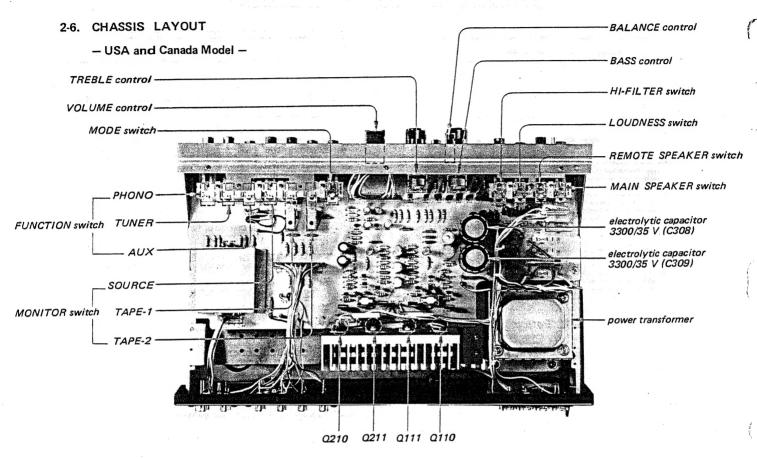
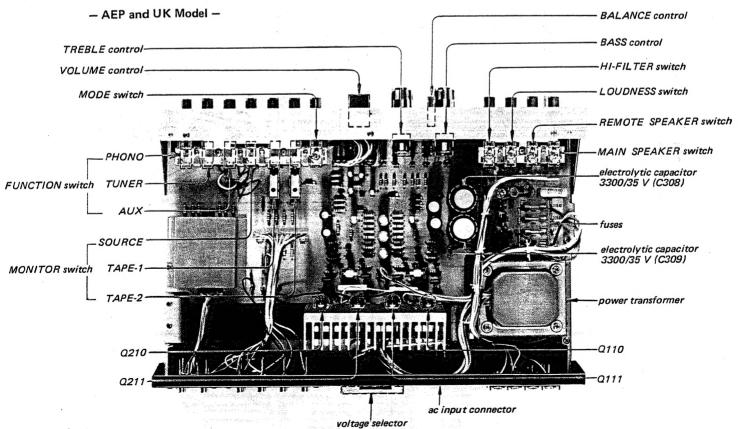


Fig. 2-3. Front subchassis removal







SECTION 3 ADJUSTMENT

3-1. DC-BIAS ADJUSTMENT

Note: This adjustment should be done after replacing any of the power transistors. To avoid accidental power transistor damage, increase the ac line voltage gradually, using a variable transformer, while measuring the voltage across the test point and the MAIN speaker terminal as shown in Fig. 3-1.

Test Equipment Required

- Dc millivoltmeter
 Capable of measuring dc voltage of 100 mV or less
- 2. Variable transformer
- 3. Screwdriver with 3 mm (1/8") blade

Preparation

1. Remove the wooden case.

- 2. Connect the dc voltmeter across the MAIN speaker terminal and the test point as shown in Fig. 3-1.
- 3. Depress the MAIN speaker switch button.
- 4. Set the variable transformer for minimum output.
- 5. Apply a drop of cement solvent to the adjustable resistors RT101, RT201 (See Fig. 3-1) on the circuit board.

Procedure

1. Turn the power switch ON and increase the line voltage to the rated value.

Note: Check to see that the reading does not exceed 25 mV. If it does, turn off the power immediately, then check and repair the trouble in the power amplifier section.

Adjust RT101 (RT201) for 25 mV reading on the meter.

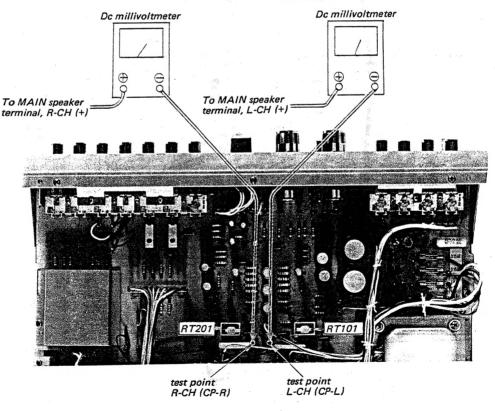


Fig. 3-1. Dc millivoltmeter connection and parts location



SECTION 4 REPACKING

The TA-1066's original shipping carton and packing materials are the ideal containers for shipping the unit. However to secure the maximum protection,

AEP Model (Serial No. 500,001 and later)

the TA-1066 must be repacked in these materials precisely as before. The proper repacking procedures are shown in Fig. 4-1.

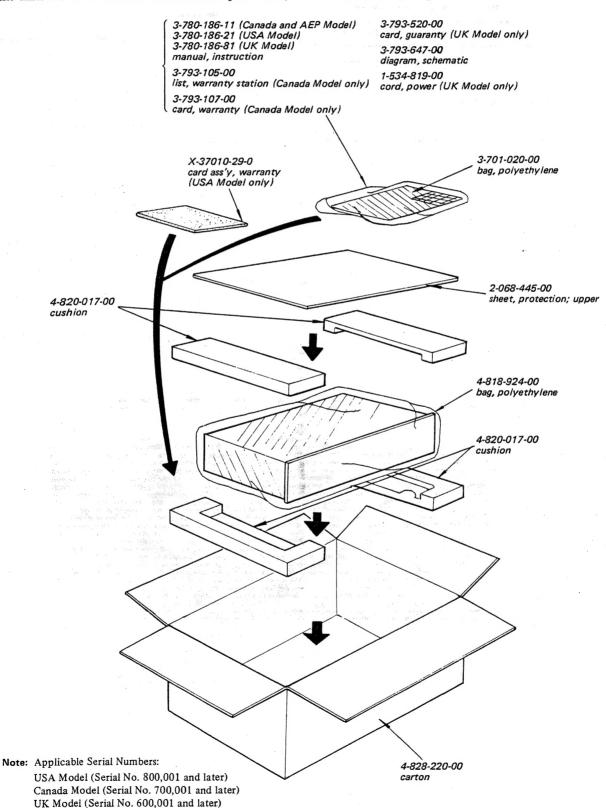


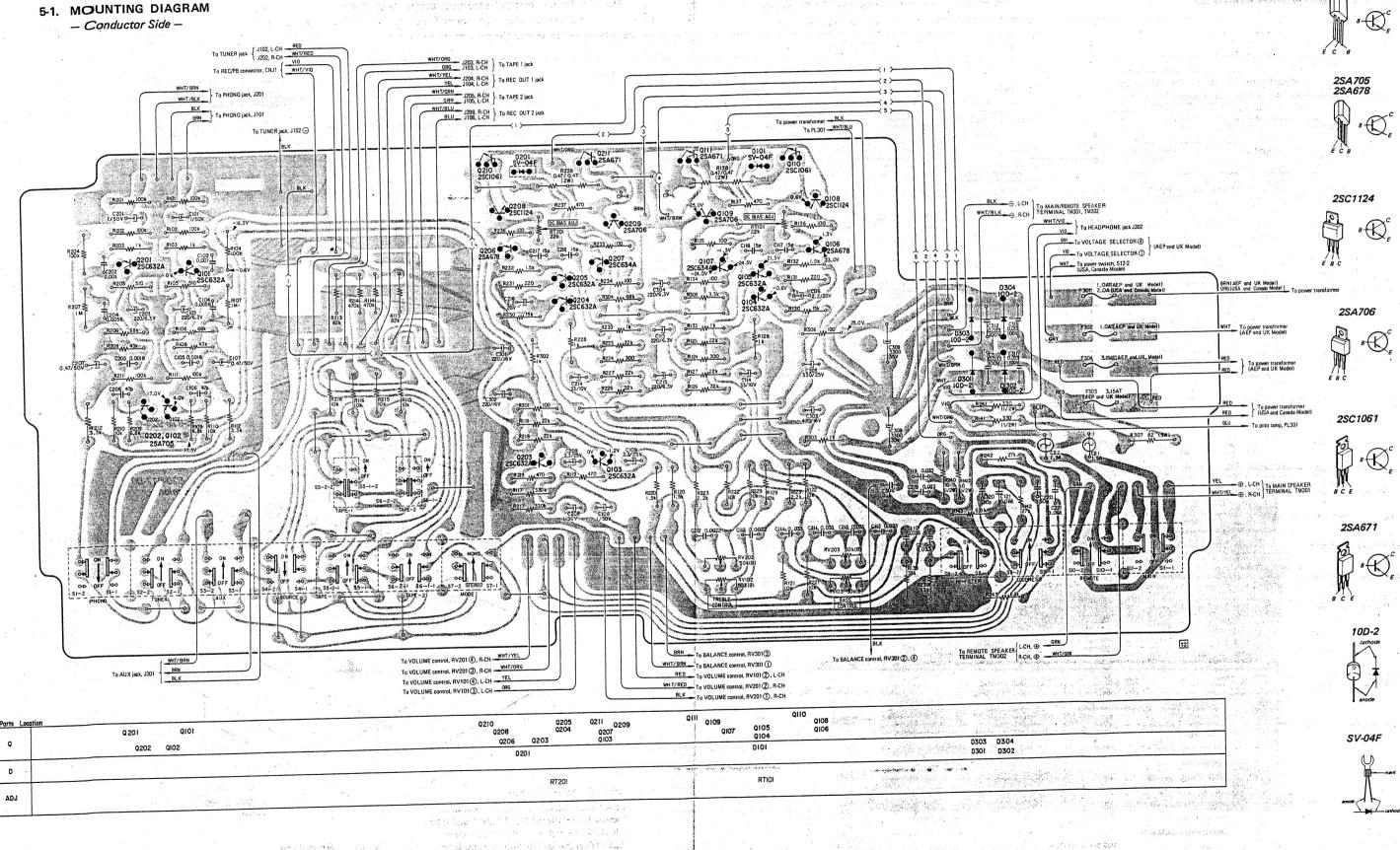
Fig. 4-1. Repacking

TA-1066 TA-1066

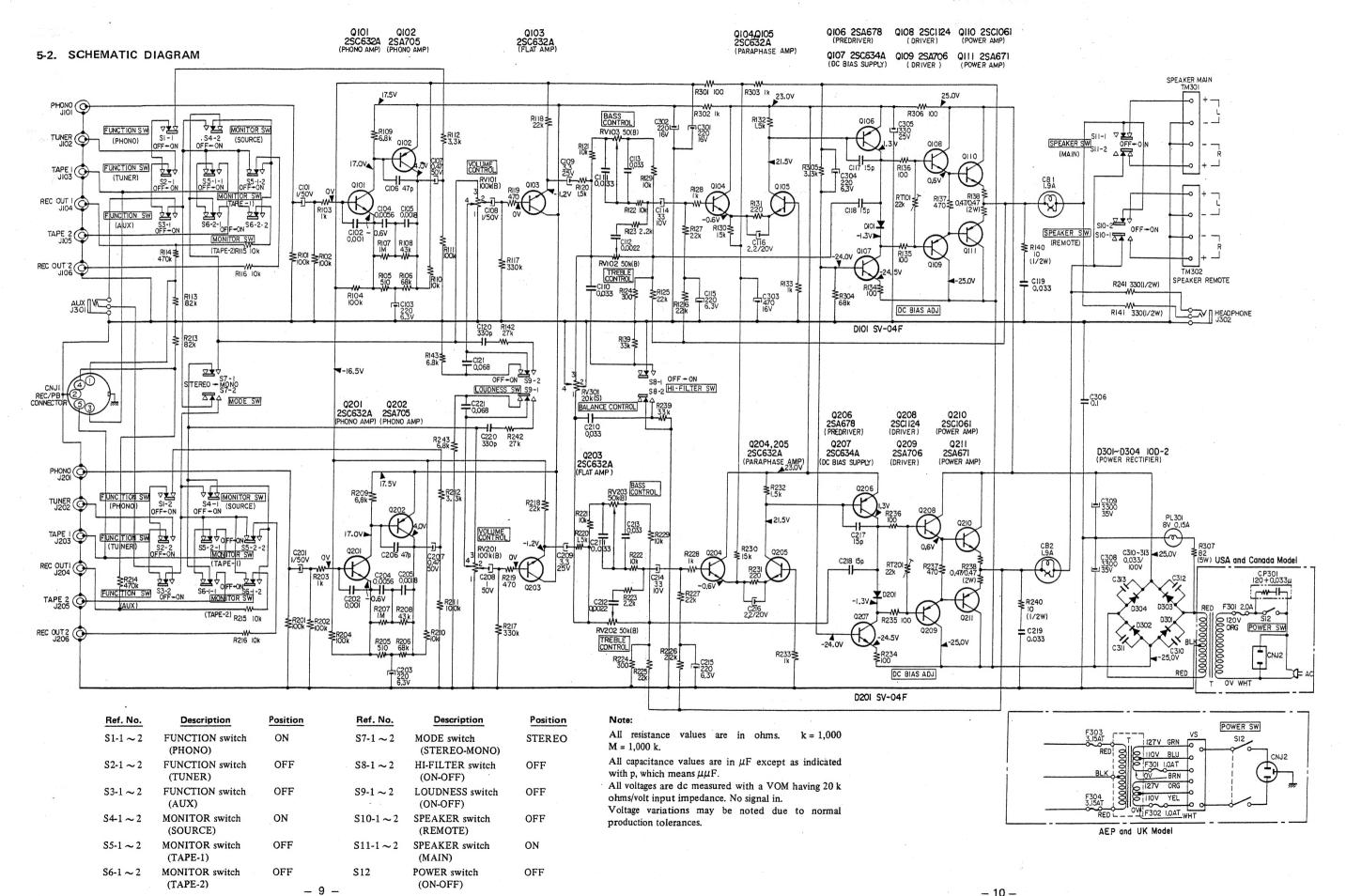
2SC632A 2SC634A

SECTION 5 DIAGRAMS

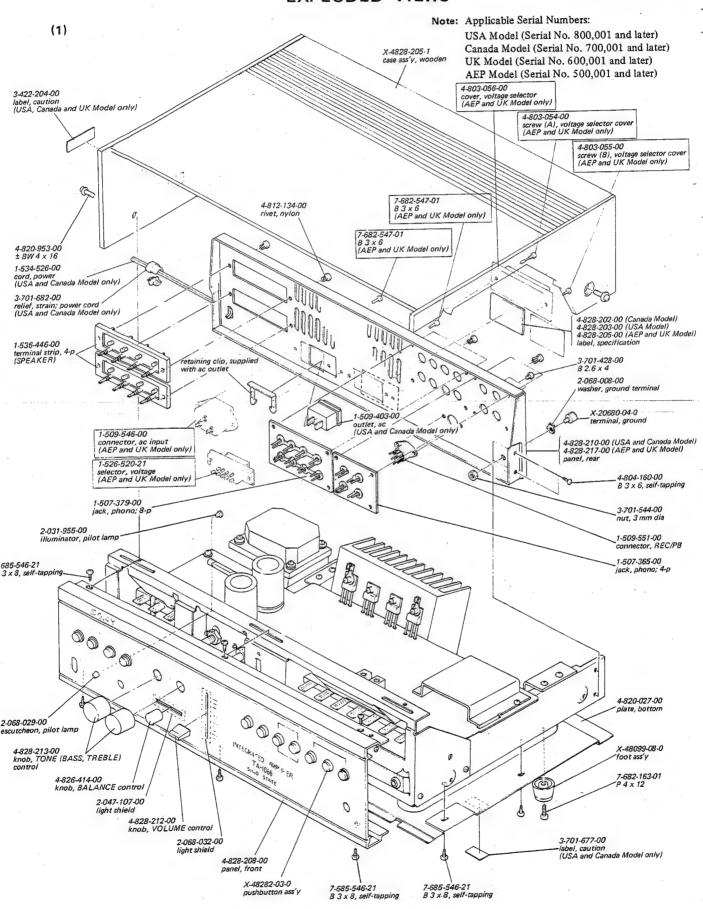
- 7 -

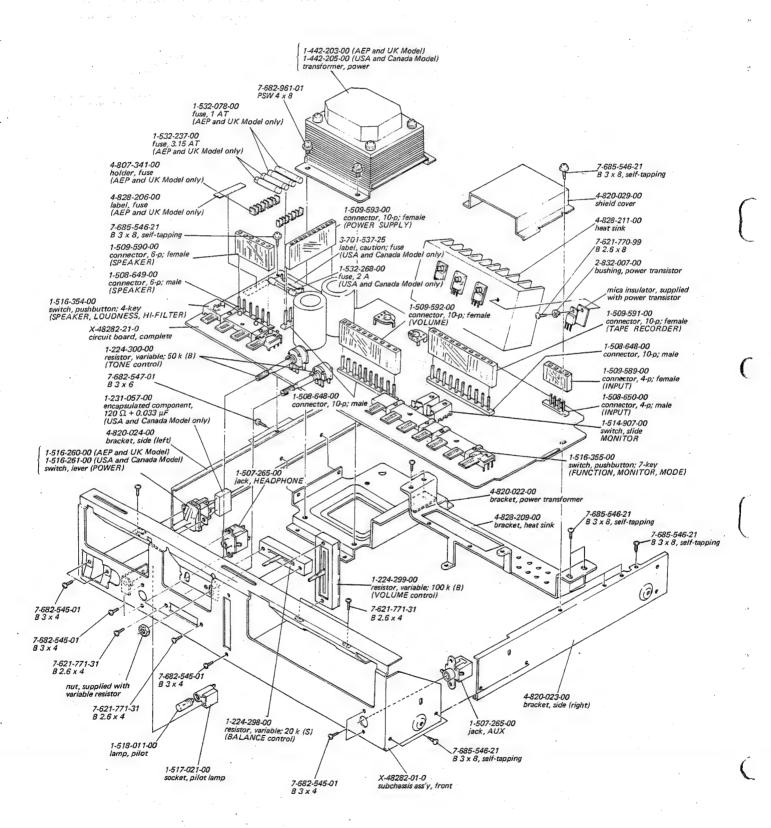


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SECTION 6 EXPLODED VIEWS





SECTION 7

ELECTRICAL PARTS LIST

Ref. No. Part No.	Descript	ion	Ref. No.	Part No.	<u></u>	Descripti	ion	
Note: Applicable Seria	l Numbers:		C112(C212)	1-105-665-12	0.0022	± 10 %		en g
	rial No. 800,001 a	nd later)	C113(C213)	1-105-679-12	0.033	±10%		
Canada Model (S	Serial No. 700,00	l and later)	C114(C214)	1-121-926-11	33		10 V	elect
UK Model (Seria	al No. 600,001 an	d later)	C115(C215)	1-121-419-11	220		6.3 V	elect
AEP Model (Ser	ial No. 500,001 a	nd later)	C116(C216)	1-131-196-11	2.2		20 V	tantalum
·		•		1-102-951-11	15 p	±5%	50 V	ceramic
COMPLETE C	IRCUIT BOARD		1	1-102-951-11	15 p	±5%	50 V	ceramic
				1-105-679-12	0.033	± 10 %		
X-48282-21-0				1-102-820-11	330 p	±5%	50 V	ceramic
**				1-105-683-12	0.068	± 10 %		
SEMICON	NDUCTORS							
0101(0201)	Transistor	2SC632A	C301	1-121-421-11	220		16 V	
Q101(Q201)	Transistor	2SA705	C302	1-121-421-11	220		16 V	
Q102(Q202)	Transistor	2SC632A	C303	1-121-426-11	470		16 V	
Q103(Q203)	Transistor	2SC632A	C304	1-121-419-11	220		6.3 V	
Q104(Q204)		2SC632A	C305	1-121-654-11	330		25 V	elect
Q105(Q205)	Transistor	2SA678	C306	1-105-685-12	0.1	± 10 %		
Q106(Q206)	Transistor	2SC634A	C307					
Q107(Q207)	Transistor	2SC1124	C308	1-123-118-11	3300			elect
Q108(Q208)	Transistor	2SA706	C309	1-123-118-11	3300		35 V	
Q109(Q209)	Transistor	2SC1061	C310	1-105-879-12	0.033	± 20 %		
Q110(Q210)	Transistor	2SA671	C311	1-105-879-12	0.033	± 20 %		
Q111(Q211)	Transistor	25A0/1	C312	1-105-879-12	0.033	± 20 %		
D101(D201)	Diode	SV-04F	C313	1-105-879-12	0.033	± 20 %	100 V	
				RES	ISTORS			
D301	Diode	10D-2	0					
D302	Diode	10D-2	All resistors	are in Ω , ± 5 %,	1/4 W and	carbon to	pe uni	ess
D303	Diode	10D-2	otherwise sp				•	
D304	Diode	10D-2						
			R101(R201)	1-244-721-11	100 k			
TRANS	FORMERS		R102(R202)	1-244-721-11	100 k		٠.	
	D (770.)	1 Courte Madell	R103(R203)	1-244-673-11	1 k			
T {1-442-205-00		d Canada Model)	R104(R204)	1-244-721-11	100 k			•
1-442-203-00	Power (AEP and	I OK Model)		1-244-666-11	510			
			R106(R206)	1-244-717-11	68 k			
CAPA	CITORS			1-244-745-11	1 M			
	50 M	umlaca othorwica	R108(R208)	1-244-712-11	43 k			
All capacitors listed here are	50 V, mylar type	(n manns 1111)	1	1-244-693-11	6.8 k			
specified and in μ F except as	indicated with p	(p means $\mu\mu$).	R110(R210)	1-244-697-11	10 k			
(elect = electrolytic)			R111(R211)	1-244-721-11	100 k			
			R112(R212)	1-244-685-11	3.3 k			
C101(C201) 1-121-912-11	1	50 V elect		1-244-719-11	82 k			
C102(C202) 1-105-661-12	0.001 ± 10 %		R114(R214)	1-244-737-11	470 k			
C103(C203) 1-121-419-11	220	6.3 V elect	R115(R215)	1-244-697-11	10 k			
C104(C204) 1-105-510-12	0.0056 ±5%		R116(R216)	1-244-697-11	10 k			
C105(C205) 1-105-504-12	0.0018 ±5%			1-244-733-11	330 k			
C106(C206) 1-101-880-11	47 p ±5%	50 V ceramic		1-244-705-11	22 k			
C107(C207) 1-121-911-11	0.47	50 V elect		1-244-665-11	470			
C108(C208) 1-121-912-11	1	50 V elect		1-244-677-11	1.5 k			
C109(C209) 1-121-913-11	3.3	25 V elect	1	1-244-697-11	10 k			
C110(C210) 1-105-679-12	0.033 ± 10 %		The second secon	1-244-697-11	10 k			
C111(C211) 1-105-679-12	0.033 ± 10 %		R123(R223)	1-244-681-11	2.2 k			

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	1-244-660-11 1-244-705-11	300 22 k	512	1-516-260-00	Lever (POWER) (AEP and UK Model)
R127(R227)	1-244-705-11 1-244-705-11	22 k 22 k	S12	1-516-261-00	Lever (POWER) (USA and Canada Model)
R129(R229)	1-244-673-11	1 k 10 k 15 k		MISCE	LLANEOUS
	1-244-701-11	220	CB1, 2	1-532-380-21	Circuit Breaker, 1.9 A
R132(R232) R133(R233)	1-244-677-11 1-244-673-11	1.5 k 1 k	CP301	1-231-057-00	Encapsulated Component, $120 \Omega + 0.033 \mu F$
	1-244-649-11	100			(USA and Canada Model only)
R136(R236)	1-211-522-11 1-244-649-11 1-244-665-11	100 100 470	CNJ1	1-509-551-00	Connector, REC/PB Outlet, ac (USA and Canada Model only)
R138(R238)	1-217-359-11 1-244-709-11	0.47 2 W metal 33 k	CNJ2	1-509-546-00	Connector, ac input; 3-p (AEP and UK Model only)
R140(R240)	1-202-525-11 1-202-561-11	10 ½ W composition 330 ½ W composition	F301	1-532-268-00	Fuse, 2 A (USA and Canada Model only)
	1-244-707-11	27 k		1-532-078-00	Fuse, 1 AT (AEP and UK Model)
	1-244-693-11	6.8 k	F302	1-532-078-00	Fuse, 1 AT (AEP and UK Model only)
R301 R302	1-244-649-11 1-244-673-11	100 1 k	F303, 304	1-532-237-00	Fuse, 3.15 AT (AEP and UK Model only)
R303 R304	1-244-673-11 1-244-717-11	1 k 68 k	J101, 102 (J201, 202)	<u>}</u> 1-507-365-00	Jack, phono; 4-p
R305 R306	1-244-685-11 1-211-522-11	3.3 k 100	J103~J106 (J203~J206)	1-507-379-00	Jack, phono; 8-p
R307	1-217-309-11	82 5 W wirewound	J301, 302 PL301	1-507-265-00 1-518-011-00	Jack, AUX, HEADPHONE Lamp, pilot; 8 V, 0.15 A
(RT201)	1-222-764-00	22 k, adjustable (dc bias adj.)	TM301, 302 VS	1-536-446-00 1-526-520-21	Terminal Strip, 4-p (SPEAKER) Selector, voltage
RV101 (RV201)	1-224-299-00	100 k (B), variable (VOLUME)		1-508-648-00	(AEP and UK Model only) Connector, 10-p; male
(RV202)	1-224-300-00	50 k (B), variable (TREBLE)		1-508-649-00 1-508-650-00	Connector, 6-p; male (SPEAKER) Connector, 4-p; male (INPUT)
RV103 (RV203)	1-224-300-00	50 k (B), variable (BASS)		1-509-589-00 1-509-590-00	Connector, 4-p; female (INPUT) Connector, 6-p; female (SPEAKER)
RV301	1-224-298-00	20 k (S), variable (BALANCE)		1-509-591-00	Connector, 10-p; female (TAPE RECORDER)
	SWI	TCHES		1-509-592-00	Connector, 10-p; female (VOLUME)
\$1~4 \$7 }	1-516-355-00	Pushbutton; 7-key (FUNCTION, MONITOR, MODE)		1-509-593-00	Connector, 10-p; female (POWER SUPPLY)
S5, S6	1-514-907-00	Slide (MONITOR)		1-517-021-00 1-534-526-00	Socket, pilot lamp Cord, power (USA and Canada Model only)
S8 ~ 11	1-516-354-00	Pushbutton; 4-key (SPEAKER, LOUDNESS, HI-FILTER)			• • • • • • • • • • • • • • • • • • •

SONY CORPORATION

3H0577-1

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Printed in Japan

Complete Spare Parts List

INTEGRATED STEREO AMPLIFIER

Model TA-1066

AEP MODEL

IMPORTANT

When ordering parts, be sure to furnish the following information:

- 1. Part Number
- 2. Model Number
- 3. Description as contained in this parts list

Due to our use of an electronic data processing system, your orders are processed by the PART NUMBER specified by you.

Please order carefully-wrong part numbers result in wrong parts.

NOTE: Prices are subject to change without notice.

Complete Spare Parts List for TA-1066

(USA, Canada, AEP and UK Model)

September, 1973

Part No.	Description I. MECHANICAL PARTS	Uni	Pric
		\$	DM
X-20680-04-0	Terminal, ground	0.06	
X-48099-08-0	Foot Ass'y, rubber	0.04	
X-48099-08-0 X-4828-205-1	Case Ass'y, wooden	5.02	
	Subchassis Ass'y, front	0.69	
X-48282-01-0	Pushbutton Ass'y	1.10	
x-48282-03-0	rushoutton Ass y	1.10	3.13
2-056-665-00	Clamp, lead wire; 5 mm dia	0.01	0.03
2-056-666-00	Clamp, lead wire; 8 mm dia	0.01	0.03
2-031-955-00	Illuminator, pilot lamp	0.02	0.06
2-047-107-00	Light Shield	0.01	
2-068-008-00		0.01	0.03
2-000-000-00	washer, ground commindr	0.01	0.03
2-068-029-00	Escutcheon, pilot lamp	0.02	0.06
2-068-032-00	Light Shield	0.01	0.03
2-832-007-00	Bushing, power transistor	0.01	0.03
3-701-428-00	Screw, (+) B 2.6 x 4	0.01	0.03
3-701-537-25	Label, caution; fuse	0.02	0.06
3 701 331 13	(USA and Canada Model only)		
3-701-544-00	1,00, 1100, 1000	0.02	
3-701-682-00	Strain Relief, power cord	0.03	0.08
	(USA and Canada Model only)		
3-701-677-00	20001, 00001011	0.01	0.03
	(USA and Canada Model only)		
4-803-054-00	Screw (A), voltage selector cover	0.02	0.06
	(AEP and UK Model only)		
4-803-055-00	Screw (B), voltage selector cover	0.01	0.03
	(AEP and UK Model only)		
		0.10	0.28
4-803-056-00	Cover, voltage selector	0.10	0.20
	(AEP and UK Model only)	0.01	0.03
4-804-160-00		0.51	1.44
4-807-341-00			0.06
4-809-246-00	Label, AC 120 V 60 Hz	0.02	0.00
	(USA and Canada Model only)	0.01	0.03
4-812-134-00	Rivet, nylon (3.5 x 5.5)	O.OT	0.03

Part No.	Description	Unit Price
		\$ DM
4-820-022-00 4-820-023-00	Bracket, power transformerBracket, side (right)	0.35 0.99 0.21 0.59 0.21 0.59
4-820-024-00	Product side (left)	0.54 1.52
4-820-027-00 4-820-029-00	Plate, bottom	0.11 0.31
4-820-953-00 4-826-414-00	Screw, (±) BW 4 x 16 Knob, BALANCE control	0.01 0.03 0.10 0.28
4-828-202-00	Tabel specification (Canada Model)	0.08 0.20
4-828-203-00	Label, specification (USA Model)	0.08 0.20
4-828-205-00	Label, specification (AEP and UK Model)-	0.08 0.20
4-828-206-00	Label, fuse (AEP and UK Model only) Panel, front	0.01 0.03 2.93 8.32
4-828-208-00	Bracket, heat sink	0.40 1.13
4-828-209-00	Panel, rear (USA and Canada Model)	0.90 2.53
4-828-210-00 4-828-211-00	Heat Sink	1.44 4.10
4-828-212-00	Knob, VOLUME control	$0.13 0.36 \\ 0.22 0.63$
4-828-213-00		0.94 2.67
4-828-217-00	Panel, rear (AEP and UK Model)	0.54 2.07

II. HARDWARE

Screws

	All screws are Phillips type (cross recess type) unless otherwise specified.	1	
		(Pe	r 100)
* .		\$	DM
7-621-770-99	B 2.6 x 8	0.30	0.84
7-621-771-31	B 2.6 x 4	0.50	1.41
7-682-163-01	P 4 x 12	0.20	0.55
7-682-545-01	B 3 x 4	0.14	0.41
7-682-547-01	B 3 x 6	0.14	0.39
7-682-961-01	PSW 4 x 8	0.95	2.68
7-685-546-21	B 3 x 8, self-tapping	0.32	0.85
	Washer		
7-623-108-12	3 mm dia (middle)	0.09	0.27

Ref. No.	Part No.	Description	Unit Price
		CTRICAL PARTS	, , ,
	III. ELE	CIRICAL PARIS	
	•		
		Complete Circuit Board	
			\$ DM
	x-48282-21-0	Complete Circuit Board	21.93 61.97
		Semiconductors	
		- 0000000	0.20 0.57
Q101(Q201)		Transistor, 28C632A	0.20 0.57 0.22 0.62
Q102(Q202)		Transistor, 2SA705 Transistor, 2SC632A	0.20 0.57
Q103(Q203)		Transistor, 2SC632A	0.20 0.57
Q104 (Q204) Q105 (Q205)		Transistor, 2SC632A	0.20 0.57
Q103(Q203)	•	Translater, Deciden	
Q106(Q206)		Transistor, 2SA678	0.20 0.57
Q107(Q207)		Transistor, 2SC634A	0.16 0.45
Q108(Q208)		Transistor, 2SC1124	0.57 1.61
Q109(Q209)	•	Transistor, 2SA706	0.48 1.36
Q110(Q210)		Transistor, 2SC1061	0.43 1.22
Q111(Q211)		Transistor, 2SA671	0.59 1.67
D101(D201)		Diode, SV-04F	0.40 1.13
D301		Diode, 10D-2	0.12 0.34
D302		Diode, 10D-2	0.12 0.34
D303		Diode, 10D-2	0.12 0.34
D304		Diode, 10D-2	0.12 0.34
		W	
		Transformers	
- T	1-442-205-00	Power (USA and Canada Model)	
οT		Power (AEP and UK Model)	6.70 18.43
0 1	1 112 200 00		
	• •	Capacitors	
	All conscitors	: listed here are 50 V mylar t	vpe unless
	otherwise spec	rified and in μF except as ind	icated with
	p (p means Nu)	.(elect = electrolytic)	
	b (b means bit)		
C101(C201)	1-121-912-11	1 50 V elect -	0.02 0.06
C102(C202)	1-105-661-12	0.001 ±10%	0.02 0.06
C103(C203)	1-121-419-11	220 6.3 V elect -	0.06 0.17
•			o: New parts
USA Model			
Canada Model			
AEP Model			
UK Model		4/9 (TA-1066)	
		(Al-17)	
		•	

Ref. No.	Part No.	Descrip	tion	Uni	t Price
C104(C204) C105(C205)	1-105-510-12 1-105-504-12	0.0056 0.0018	±5% ±5%	\$ 0.04 0.04	DM 0.11 0.11
C106(C206) C107(C207) C108(C208) C109(C209) C110(C210)	1-101-880-11 1-121-911-11 1-121-912-11 1-121-913-11 1-105-679-12	47 p 0.47 1 3.3 0.033	±5% ceramic 50 V elect 50 V elect 25 V elect ±10%	0.02 0.04 0.04 0.04 0.03	0.06 0.11 0.11 0.11 0.08
C111(C211) C112(C212) C113(C213) C114(C214) C115(C215)	1-105-679-12 1-105-665-12 1-105-679-12 1-121-926-11 1-121-419-11	0.033 0.0022 0.033 33 220	±10% ±10%	0.03 0.02 0.03 0.05 0.06	0.08 0.06 0.08 0.14 0.17
C116(C216) C117(C217) C118(C218) C119(C219) C120(C220) C121(C221)	1-131-196-11 1-102-951-11 1-102-951-11 1-105-679-12 1-102-820-11 1-105-683-12	2.2 15 p 15 p 0.033 330 p 0.068	20 V tantalum- ±5% 50 V ceramic - ±5% 50 V ceramic - ±10%	0.11 0.02 0.02 0.03 0.03 0.04	0.31 0.06 0.06 0.08 0.08 0.11
C301 C302 C303 C304 C305	1-121-421-11 1-121-421-11 1-121-426-11 1-121-419-11 1-121-654-11	220 220 470 220 330	16 V elect 16 V elect 16 V elect 6.3 V elect 25 V elect	0.08 0.08 0.13 0.06 0.12	0.23 0.23 0.37 0.17 0.34
C306 C307 C308 C309 C310	1-105-685-12 - 1-123-118-11 1-123-118-11 1-105-879-12	0.1 3300 3300 0.033	35 V elect 35 V elect ±20% 100V	0.05 - 0.70 0.70 0.04	0.14 - 1.97 1.97 0.11
C311 C312 C313	1-105-879-12 1-105-879-12 1-105-879-12	0.033 0.033 0.033	±20% 100V ±20% 100V ±20% 100V	0.04 0.04 0.04	0.11 0.11 0.11

Resistors

All resistors are in $\Omega,\ \pm 5\%,\ 1/4W$ and carbon type unless otherwise indicated.

R101(R201)	1-244-721-11	100 k	0.02	0.06
R102(R202)	1-244-721-11	100 k	 0.02	0.06
R103(R203)	1-244-673-11	1 k	 0.02	0.06

o: New parts

F	Ref. No.	Part No.	Descripti	ion	Unit_E	rice
_					\$ **	DM
					0.02	0.06
	R104(R2O4)	1-244-721-11	100 k		0.02	0.06
E	R105(R2O5)	1-244-666-11	510		0.02	
		- 011 717 11	68 k		0.02	0.06
	R106(R206)	1-244-717-11	1 M		0.02	0.06
	R107(R207)	1-244-745-11	43 k		0.02	0.06
	R108(R2O8)	1-244-712-11	6.8 k		0.02	0.06
	R109(R2O9)	1-244-693-11	6.6 K 10 k		0.02	0.06
.]	R110(R210)	1-244-697-11	10 K			
	D111/D211)	1-244-721-11	100 k		0.02	0.06
	R111(R211)	1-244-685-11	3.3 k		0.02	0.06
	R112(R212)	1-244-719-11	82 k		0.02	0.06
	R113(R213)	1-244-737-11	470 k		0.02	0.06
	R114(R214)	1-244-697-11	10 k		0.02	0.06
	R115(R215)	1-244-09/-11	10 %			
	R116(R216)	1-244-697-11	10 k		0.02	0.06
	R117(R217)	1-244-733-11	330 k		0.02	0.06
	R118(R218)	1-244-705-11	22 k		0.02	0.06
	R119(R219)	1-244-665-11	470		0.02	0.06
	R119(R219) R120(R220)	1-244-677-11	1.5 k	the same with their same about their same their same than the same than the same than the same than	0.02	0.06
	R120(R220)	1 244 0// 22				2 26
	R121(R221)	1-244-697-11	10 k	and only one only the first only the same only only only only only only only only	0.02	0.06
	R122(R222)	1-244-697-11	10 k		0.02	0.06
	R123(R223)	1-244-681-11	2.2 k		0.02	0.06
	R124(R224)	1-244-660-11	300		0.02	0.06
	R125(R225)	1-244-705-11	22 k		0.02	0.06
	1(125) (1225)	_			0.02	0.06
	R126(R226)	1-244-705-11	22 k		0.02	0.06
	R127(R227)	1-244-705-11	22 k		0.02	0.06
	R128(R228)	1-244-673-11	1 k		0.02	0.06
	R129(R229)	1-244-697-11	10 k		0.02	
	R130(R230)	1-244-701-11	15 k		0.02	0.06
					0.02	0.06
	R131(R231)	1-244-657-11	220			0.06
	R132(R232)	1-244-677-11	1.5 k		0.02	0.06
	R133(R233)	1-244-673-11	1 k		0.02	
	R134(R234)	1-244-649-11	100		0.02	
	R135(R235)	1-211-522-11	100	and you say this was not you say this does may you say not not our may	0.02	0.00
		1 0// (/0 11	100		0.02	0.06
	R136(R236)	1-244-649-11	470		0.02	0.06
	R137(R237)	1-244-665-11	0.47	2 W metal	0.07	
0	R138(R238)	1-217-359-11		Z w metai	0.02	
	R139(R239)	1-244-709-11	33 k	1/2 W composition	0.02	
	R140(R240)	1-202-525-11	10	1/2 W Composition		
	n1 / 1 / n2 / 1 \	1-202-561-11	330	1/2 W composition		
	R141(R241)	1-402 301 11				

o: New parts

	Ref. No.	Part No.	Description	Unit	Price
	R142(R242) R143(R243)	1-244-707-11	27 k	\$ 0.02 0.02	DM 0.06 0.06
	R301 R302 R303 R304 R305	1-244-649-11 1-244-673-11 1-244-673-11 1-244-717-11 1-244-685-11	100	0.02 0.02 0.02 0.02 0.02	0.06 0.06 0.06 0.06 0.06
	R306 R307	1-211-522-11 1-217-309-11	100	0.02	0.06 0.25
	RT101(RT201)	1-222-764-00	22 k, adjustable (dc bias adj)	0.06	0.17
0	RV101(RV201)	1-224-299-00	100 k (B), variable (VOLUME)	0.67	1.90
	RV102(RV202) RV103(RV203) RV301		50 k (B), variable (TREBLE)- 50 k (B), variable (BASS) 20 k (S), variable (BALANCE)	0.47 0.47 0.35	1.32 1.32 0.98
			<u>Switches</u>		
0	S1∿S4, S7	1-516-355-00	Pushbutton, 7-key (FUNCTION, MONITOR, MODE)	1.66	4.83
	S5, 6 S8\S11	1-514-907-00 1-516-354-00	Slide (MONITOR) Pushbutton, 4-key (HI-FILTER, LOUDNESS, SPEAKER)	0.25	0.70 3.85
	S12	(1-516-260-00	Lever (POWER) (AEP and UK Model)	0.45	-
٠		(1-516-261-00	Lever (POWER) (USA and Canada Model)	0.82	-
	4		Miscellaneous		
	CB1, 2 CP301	1-532-380-21 1-231-057-00	Circuit Braker, 1.9 A Encapsulated Component, $120 \Omega + 0.033 \mu F$	0.55	1.55
	CNJ1 CNJ2	1-509-551-00 ,1-509-403-00	(USA and Canada Model only) Connector, REC/PB Outlet, ac	0.19	0.54
		(₁₋₅₀₉₋₅₄₆₋₀₀	(USA and Canada Model only) Connector, ac input; 3-p (AEP and UK Model only)	0.47	1.32

o: New parts

Ref. No.	Part No.	Description	Unit P	rice
			\$	DM
F301	(1-532-268-00	Fuse, 2 A(USA and Canada Model only)	0.16	-
	(1-532-078-00	Fuse, 1 AT (AEP and UK Model)	0.06	-
F302	1-532-078-00	Fuse, 1 AT	0.06	_
F303, 304	1-532-237-00	(AEP and UK Model only) Fuse, 3.15 AT (AEP and UK Model only)	0.13	- -
J101, 102 (J201,202)	1-507-365-00	Jack, phono; 4-p	0.31	0.87
J103~J106 }	1-507-379-00	Jack, phono; 8-p	0.56	1.58
(J203∿J206) J301, 302	1-507-265-00	Jack, AUX/HEADPHONE	0.16	0.45
PL301	1-518-011-00	Lamp, pilot; 8V/0.15A	0.04	0.11
o TM301,302	1-536-446-00	Terminal Strip, 4-p (SPEAKER)	0.26	0.73
VS	1-526-520-21	Selector, voltage (AEP and UK Model only)	0.11	0.31
•	1-508-648-00	Connector, 10-p; male	0.02	0.06
0	1-508-649-00	Connector, 6-p; male (SPEAKER)	0.03	0.08
0	1-508-650-00	Connector, 4-p; male (INPUT)	0.05	0.14
0	1-509-589-00	Connector, 4-p; female (INPUT)	0.16	0.45
0	1-509-590-00	Connector, 6-p, female (SPEAKER)	0.21	0.59
0	1-509-591-00	Connector, 10-p; female (TAPE RECORDER)	0.41	1.18
0	1-509-592-00	Connector, 10-p, female (VOLUME)	0.34	0.96
0	1-509-593-00	Connector, 10-p; female (POWER SUPPLY)	0.39	1.10
	1-517-021-00	Socket, pilot lamp	0.05	0.14
•	1-534-526-00	Cord, power	0.35	_
		(USA and Canada Model only)		

o: New parts

	:		'
Part No.	Description	Unit	Price
•	IV. ACCESSORIES AND PACKING MATERIALS		
X-37010-29-0 1-534-819-00 2-068-445-00 3-701-020-00 3-780-186-11	Card Ass'y, warranty (USA Model only) Cord, power (UK Model only) Cushion, upper	\$ 0.06 0.12 0.01 0.43	DM - 0.34 0.03 1.21
3-780-186-21 3-780-186-81 3-793-105-00 3-793-107-00 3-793-520-00	Manual, instruction (USA Model) Manual, instruction (UK Model) List, warranty station(Canada Model only) Card, warranty (Canada Model) Card, warranty (UK Model)	- 0.06 0.06	-
3-793-647-00 4-802-201-00	Diagram, schematicBag, polyethylene; warranty card (Canada and UK Model only)	0.06 0.01	0.17
4-818-924-00 4-820-017-00 4-828-220-00	Bag, polyethylene; unit	0.04 0.13 0.70	0.11 0.37 1.97

Note: Applicable Serial Numbers;

USA Model 800,001 and later Canada Model 700,001 and later AEP Model 900,001 and later UK Model 400,001 and later

